

Microsoft GH-300 Testantworten - GH-300 Prüfungsmaterialien



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Microsoft GH-300 Prüfungsplan:

Thema	Einzelheiten
Thema 1	Developer Use Cases for AI: Targeting Software Engineers and Technical Leads, this domain elaborates on how AI improves developer productivity across common tasks like learning new languages, translation, documentation, debugging, data science, and refactoring. It discusses Copilot's support in software development lifecycle management and highlights its limitations. Use of the productivity API to track Copilot's impact is also included.
Thema 2	Domain 4: Prompt Crafting and Prompt Engineering This section measures skills of Software Developers and AI Interaction Designers in effectively crafting prompts to optimize Copilot's output. It reviews foundational concepts such as prompt components, the role of language in prompting, zero-shot vs. few-shot prompting, and how chat history influences responses. Best practices and engineering principles for prompt design and training methods are also covered.
Thema 3	How GitHub Copilot Works and Handles Data: Designed for Machine Learning Engineers and Data Privacy Specialists, this section covers the data lifecycle and processing behind Copilot's code suggestions. It explains how context is gathered, prompts constructed, responses generated, and post-processed through proxy services. Candidates understand Copilot's data policies, handling of inputs, and limitations such as context window size and data age influencing suggestion relevance.
Thema 4	Responsible :This section of the exam measures skills of AI Ethics Officers and Risk Managers and covers the responsible and ethical usage of AI technologies. It explains the risks and limitations associated with generative AI tools, including biases in training data and the need to validate AI outputs. Candidates learn how to operate AI responsibly by identifying potential harms such as bias, fairness, privacy concerns, and mitigating these harms by applying ethical AI principles.

Thema 5	• Privacy Fundamentals and Context Exclusions: This domain focuses on Security Engineers and Compliance Officers and addresses improving code quality with Copilot's test suggestions and security optimizations. It covers identification of security vulnerabilities, performance enhancements, and privacy features like content exclusions at repository and organization levels with explanation of their limitations. Candidates learn about safeguarding mechanisms such as duplication detection, contractual protections, security checks, and troubleshooting guide for common Copilot issues including context exclusions and suggestion gaps.
Thema 6	• Domain 6: Testing with GitHub Copilot: This section measures abilities of QA Engineers and Test Automation Specialists to use Copilot for test generation, including unit and integration tests. It explains how Copilot can identify edge cases and assist in writing assertions. The domain also covers different Copilot subscription SKUs, privacy considerations, organizational code suggestion settings, and configuration files related to Copilot.

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Microsoft GH-300 Prüfungsmaterialien & GH-300 Zertifikatsdemo

Mit einem Microsoft GH-300 Zertifikat kann der Berufstätige in der IT-Branche bessere berufliche Aufstiegschancen haben. Das Microsoft GH-300 Zertifikat ebnet den Berufstätigen in der IT-Branche den Weg zur erfolgreichen Karriere!

Microsoft GitHub Copilot GH-300 Prüfungsfragen mit Lösungen (Q63-Q68):

63. Frage

Which of the following prompts can be used to guide GitHub Copilot Chat in refactoring code for quality improvements? (Each correct answer presents part of the solution. Choose two.)

- A. "Show me how to improve the readability of this function."
- B. "Predict future coding trends and update my codebase accordingly."
- C. "Suggest ways to enhance the maintainability of this code segment."
- D. "Refactor my application to meet the latest coding standards."

Antwort: A,C

Begründung:

Effective prompts for refactoring include requests that focus on specific quality improvements, such as readability and maintainability. These prompts guide GitHub Copilot to provide relevant and actionable suggestions.

64. Frage

Identify the steps involved in the life cycle of a GitHub Copilot code suggestion? (Each correct answer presents part of the solution. Choose two.)

- A. Capturing the user's context
- B. Storing user data
- C. Generate suggestions
- D. Processing telemetry data
- E. Retraining the model

Antwort: A,C

Begründung:

Exact extracts:

* "Copilot first captures the context of the developer's code and environment." References: GitHub Copilot technical overview documentation.

65. Frage

What is a benefit of using custom models in GitHub Copilot?

- A. Responses use the organization's LLM engine
- B. Responses are guaranteed to be correct
- C. Responses are faster to produce and appear sooner
- **D. Responses use practices and patterns in your repositories**

Antwort: D

Begründung:

Custom models in GitHub Copilot allow the tool to learn from the specific code patterns and practices within your repositories. This results in suggestions that are more aligned with your organization's coding standards and conventions, improving the relevance and accuracy of the generated code.

Reference: GitHub Copilot Enterprise documentation on custom models.

66. Frage

What configuration needs to be set to get help from Microsoft and GitHub protecting against IP infringement while using GitHub Copilot?

- **A. Suggestions matching public code to 'blocked'**
- B. Enforce blocking of MIT or GPL licensed code
- C. You need to check code suggestions yourself before accepting
- D. Enable GitHub Copilot license checking

Antwort: A

Begründung:

To help protect against IP infringement, you need to configure GitHub Copilot to block suggestions that match public code. This ensures that the generated code is not directly copied from publicly available sources.

Reference: GitHub Copilot documentation on IP protection and code filtering.

67. Frage

What GitHub Copilot pricing plan gives you access to your company's knowledge bases?

- A. GitHub Copilot Professional
- B. GitHub Copilot Business
- **C. GitHub Copilot Enterprise**
- D. GitHub Copilot Individual

Antwort: C

Begründung:

GitHub Copilot Enterprise provides access to your company's knowledge bases, enabling the tool to provide contextually relevant suggestions based on your organization's specific documentation and code.

Reference: GitHub Copilot Enterprise pricing and features.

68. Frage

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